

## ABSTRACT OF THE DISCLOSURE

An optical glass having a refractive index ( $n_d$ ) and an Abbe number ( $v_d$ ) which are within an area surrounded by the straight lines which are drawn by connecting point A ( $n_d=1.835$ ,  $v_d=46.5$ ), point B ( $n_d=1.90$ ,  $v_d=40.0$ ), point C, ( $n_d=1.90$ ,  $v_d=35.0$ ) and point D ( $n_d=1.835$ ,  $v_d=38.0$ ) in a sequence of A, B, C, D and A as border lines in x-y coordinates shown in FIG. 1, in which X-axis is the Abbe number ( $v_d$ ) and Y-axis is the refractive index ( $n_d$ ), the area including the border line. The optical glass has low glass transition temperature ( $T_g$ ), and suitable for precision mold pressing. The optical glass which has the refractive index ( $n_d$ ) and Abbe number ( $v_d$ ) within the above-described area, where the area includes the border lines, has the composition of  $\text{SiO}_2\text{-B}_2\text{O}_3\text{-La}_2\text{O}_3\text{-Gd}_2\text{O}_3\text{-Li}_2\text{O-F}$  system, the transition temperature ( $T_g$ ) of 550 to 650°C, and is free from lead, cadmium, thorium,  $\text{Y}_2\text{O}_3$ ,  $\text{P}_2\text{O}_5$  and  $\text{TeO}_2$ .